

## ABSTRACT OF THE DISCLOSURE

A method for flexibly defining communication constructs includes providing at  
5 least one communication element type for at least one layer of a generalized  
communication model, such as a bus model. Each communication element type has a  
user-definable structure that is adaptable for representing a corresponding protocol layer  
of a target communication medium. Users can define specific communication element  
types to substantially represent the target protocol. Users can also define the  
10 communication element types to depart from the target protocol in precisely defined  
ways.